

# California Manual on Uniform Traffic Control Devices for Streets and Highways (FHWA's MUTCD 2003 Edition, as amended for use in California)

## APPENDIX



STATE OF CALIFORNIA  
BUSINESS, TRANSPORTATION AND HOUSING AGENCY  
DEPARTMENT OF TRANSPORTATION

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## APPENDIX

### TABLE OF CONTENTS

		<b><u>Page</u></b>
A1	Congressional Legislation	A1-1
<a href="#">A101(CA)</a>	<a href="#">California Sign Chart (September 2006)</a>	<a href="#">A101(CA)-1</a>
<a href="#">A102(CA)</a>	<a href="#">List of Acronyms &amp; Abbreviations</a>	<a href="#">A102(CA)-1</a>
<a href="#">A103(CA)</a>	<a href="#">List of Useful TCD Related Web Sites</a>	<a href="#">A103(CA)-1</a>

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## CONGRESSIONAL LEGISLATION

### **PUBLIC LAW 102-240-DEC. 18, 1991 (INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991)**

**Section 1077. REVISION OF MANUAL** — Not later than 90 days after the date of the enactment of this Act, the Secretary shall revise the Manual of Uniform Traffic Control Devices and such other regulations and agreements of the Federal Highway Administration as may be necessary to authorize States and local governments, at their discretion, to install stop or yield signs at any rail-highway grade crossing without automatic traffic control devices with 2 or more trains operating across the rail-highway grade crossing per day.

### **PUBLIC LAW 102-388-OCT. 6, 1992 (DEPARTMENT OF TRANSPORTATION AND RELATED AGENCIES APPROPRIATIONS ACT, 1993)**

**Section 406** — The Secretary of Transportation shall revise the Manual of Uniform Traffic Control Devices to include —

- (a) a standard for a minimum level of retroreflectivity that must be maintained for pavement markings and signs, which shall apply to all roads open to public travel; and
- (b) a standard to define the roads that must have a centerline or edge lines or both, provided that in setting such standard the Secretary shall consider the functional classification of roads, traffic volumes, and the number and width of lanes.

### **PUBLIC LAW 104-59-NOV. 28, 1995 (NATIONAL HIGHWAY SYSTEM DESIGNATION ACT OF 1995)**

#### **Section 205. RELIEF FROM MANDATES —**

##### **(c) METRIC REQUIREMENTS —**

(1) **PLACEMENT AND MODIFICATION OF SIGNS** — The Secretary shall not require the States to expend any Federal or State funds to construct, erect, or otherwise place or to modify any sign relating to a speed limit, distance, or other measurement on a highway for the purpose of having such sign establish such speed limit, distance, or other measurement using the metric system.

(2) **OTHER ACTIONS** — Before September 30, 2000, the Secretary shall not require that any State use or plan to use the metric system with respect to designing or advertising, or preparing plans, specifications, estimates, or other documents, for a Federal-aid highway project eligible for assistance under title 23, United States Code.

(3) **DEFINITIONS** — In this subsection, the following definitions apply:

(A) **HIGHWAY** — The term ‘highway’ has the meaning such term has under section 101 of title 23, United State Code.

(B) **METRIC SYSTEM** — the term ‘metric system’ has the meaning the term ‘metric system of measurement’ has under section 4 of the Metric Conversion Act of 1975 (15 U.S.C. 205c).

**Section 306. MOTORIST CALL BOXES** — Section 111 of title 23, United States Code, is amended by adding at the end the following:

##### **(c) MOTORIST CALL BOXES—**

(1) **IN GENERAL**— Notwithstanding subsection (a), a State may permit the placement of motorist call boxes on rights-of-way of the National Highway System. Such motorist call boxes may include the identification and sponsorship logos of such call boxes.

##### **(2) SPONSORSHIP LOGOS—**

(A) **APPROVAL BY STATE AND LOCAL AGENCIES**—All call box installations displaying sponsorship logos under this subsection shall be approved by the highway agencies having jurisdiction of the highway on which they are located.

(B) **SIZE ON BOX**—A sponsorship logo may be placed on the call box in a dimension not to exceed the size of the call box or a total dimension in excess of 12 inches by 18 inches.

(C) **SIZE ON IDENTIFICATION SIGN**—Sponsorship logos in a dimension not to exceed 12 inches by 30 inches may be displayed on a call box identification sign affixed to the call box post.

(D) **SPACING OF SIGNS**—Sponsorship logos affixed to an identification sign on a call box post may be located on the rights-of-way at intervals not more frequently than 1 per every 5 miles.

(E) **DISTRIBUTION THROUGHOUT STATE**—Within a State, at least 20 percent of the call boxes displaying sponsorship logos shall be located on highways outside of urbanized areas with a population greater than 50,000.

(3) **NONSAFETY HAZARDS**—The call boxes and their location, posts, foundations, and mountings shall be consistent with requirements of the Manual on Uniform Traffic Control Devices or any requirements deemed necessary by the Secretary to assure that the call boxes shall not be a safety hazard to motorists.

**Section 353(a) SIGNS** — Traffic control signs referred to in the experimental project conducted in the State of Oregon in December 1991 shall be deemed to comply with the requirements of Section 2B-4 of the Manual on Uniform Traffic Control Devices of the Department of Transportation.

**Section 353(b) STRIPES** — Notwithstanding any other provision of law, a red, white, and blue center line in the Main Street of Bristol, Rhode Island, shall be deemed to comply with the requirements of Section 3B-1 of the Manual on Uniform Traffic Control Devices of the Department of Transportation.

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## APPENDIX A101(CA). CALIFORNIA SIGN CHART (September 2006)

### Support:

The most commonly used signs in California are shown in the California Sign Chart (September 2006). This chart is not meant to be used as a comprehensive sign chart but is provided on the following pages for ease of use and as a handy reference. It consists of the following sheets:

- Regulatory Signs (Sheets 1 through 3 of 10).
  - Warning Signs (Sheets 4 and 5 of 10).
  - Guide Signs (Sheets 6 through 8 of 10).
  - Temporary Traffic Control Signs (Sheets 9 and 10 of 10).
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# California Sign Chart

## Sheet 1 of 10 - Federal Regulatory Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

California Department of Transportation  
Signs and Work Zones Branch  
September 2006



R1-1



R1-2



R1-2a



R1-3

ALL WAY

R1-4



R1-5a



R2-1



R3-1



R3-2



R3-3



R3-4



R3-5



R3-5a



R3-6



R3-7



R3-8



R3-8a



R3-8b



R3-9a



R3-18



R4-1



R4-3



R4-5



R4-6



R4-7



R4-7a



R4-7b



R4-8



R4-10



R5-1



R5-1a



R5-2



R5-6



R5-10a



R5-10c

ONE WAY

R6-1



R6-2



R6-3



R6-3a



R7-6



R7-7



R7-8b



R7-9



R7-107



R7-201a



R7-202



R8-3a



R8-3c



R8-3d



R8-4



R8-8



R9-2



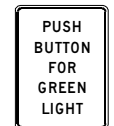
R9-3



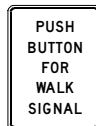
R9-3a



R9-3b



R10-3



R10-4



R10-4b



R10-6



R10-7



R10-11



R10-12



R10-15



R11-2



R12-1



R12-5



R14-1



R15-1



R15-2



S4-2



S5-2



# California Sign Chart

## Sheet 2 of 10 - California Regulatory Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

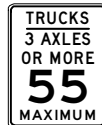
California Department of Transportation  
Signs and Work Zones Branch  
September 2006



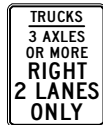
R2-4 (CA)



R3 (CA)



R6-3 (CA)



R6-3A (CA)



R6-4 (CA)



R6-4A (CA)



R13A (CA)



R13B (CA)



R18A (CA)



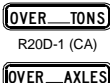
R18A (CA)



R18B (CA)



R20A (CA)



R20D-1 (CA)



R20D-2 (CA)



R20D-3 (CA)



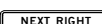
R20D-4 (CA)



R20H (CA)



R20-1 (CA)



R20-1A (CA)



R21 (CA)



R22 (CA)



R23 (CA)



R24 (CA)



R25 (CA)



R26 (CA)



R26A (CA)



R26A(S) (CA)



R26B (CA)



R26C (CA)



R26F (CA)



R26J (CA)



R26(S) (CA)



R27 (CA)



R27A (CA)



R28 (CA)



R28A (CA)



R28A(S) (CA)



R28B (CA)



R28(S) (CA)



R29 (CA)



R30 (CA)



R30A (CA)



R31 (CA)



R31(S) (CA)



R32 (CA)



R32A (CA)



R32B (CA)



R33 (CA)



R33A (CA)



R33B (CA)



R33C (CA)



R36 (CA)



R37 (CA)



R38 (CA)



R38(S) (CA)



R40 (CA)



R44A (CA)



R44B (CA)



R44C (CA)



R47 (CA)



R47A (CA)



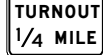
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R48-1 (CA)



R48-2 (CA)



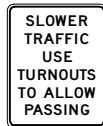
R50 (CA)



R51 (CA)



R52 (CA)



R52A (CA)



R53A (CA)



R53B (CA)



R53D (CA)



R53E (CA)



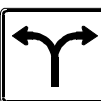
R55 (CA)



R57 (CA)



R58 (CA)



R60B (CA)



R61-1 (CA)



R61-3 (CA)



R61-5 (CA)



R61-7 (CA)



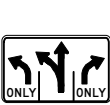
R61-9 (CA)



R61-11 (CA)



R61-13 (CA)



R61-15 (CA)



R61-17 (CA)



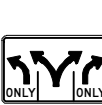
R61-19 (CA)



R61-22 (CA)



R61-24 (CA)



R61-26 (CA)



R61-28 (CA)



R61-30 (CA)



R61-32 (CA)



R61-34 (CA)



R61-36 (CA)



R62C (CA)



R62E (CA)



R70 (CA)



R73-1 (CA)



R73-2 (CA)



R73-3 (CA)



R73-4 (CA)

# California Sign Chart

## Sheet 3 of 10 - California Regulatory Signs (Continued)

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

California Department of Transportation  
Signs and Work Zones Branch  
September 2006



R73-5 (CA)



R73-6 (CA)



R73-8 (CA)



R73-9 (CA)



R74 (CA)



R75 (CA)



R76 (CA)



R76-1 (CA)



R77 (CA)



R78 (CA)



R79 (CA)



R80-1 (CA)



R81 (CA)



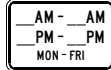
R81A (CA)



R81B (CA)



R82A (CA)



R82B (CA)



R82-1 (CA)



R84-1 (CA)



R84-2 (CA)



R86 (CA)



R86-2 (CA)



R86-3 (CA)



R87-1 (CA)



R87-2 (CA)



R88 (CA)



R89 (CA)



R89-2 (CA)



R89-3 (CA)



R90-1 (CA)



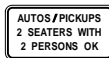
R91-1 (CA)



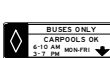
R91-2 (CA)



R91-3 (CA)



R91B (CA)



R92 (CA)



R93A (CA)



R93-2 (CA)



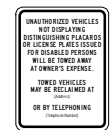
R94 (CA)



R99 (CA)



R100A (CA)



R100B (CA)



R101 (CA)



R102 (CA)



R102A (CA)



R103 (CA)



R103A (CA)



R104 (CA)



R104A (CA)



R105 (CA)



R105A (CA)



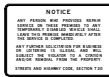
S3-1 (CA)



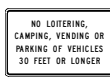
S8 (CA)



S20 (CA)



S21 (CA)



S22 (CA)



S23 (CA)



S24 (CA)



S30-1 (CA)



S30-2 (CA)



S30-3 (CA)



S30-4 (CA)



S30-5 (CA)



S33 (CA)



S34 (CA)



SR2 (CA)



SR5-1 (CA)



SR6-1 (CA)



SR7-1 (CA)



SR8-1 (CA)



SR9-1 (CA)



SR11-1 (CA)



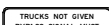
SR13-1 (CA)



SR15 (CA)



SR15A (CA)



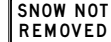
SR17 (CA)



SR18 (CA)



SR19-1 (CA)



SR20-1 (CA)



SR22-1 (CA)



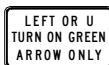
SR23-1 (CA)



SR27-1 (CA)



SR39A (CA)



SR39A(U) (CA)



SR40 (CA)



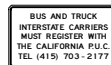
SR41 (CA)



SR42 (CA)



SR43 (CA)



SR44 (CA)



SR46 (CA)



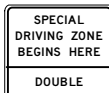
SR47 (CA)



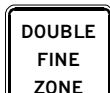
SR50-1 (CA)



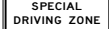
SR50-2 (CA)



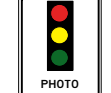
SR53 (CA)



SR54 (CA)



SR55 (CA)



SR56 (CA)



SR57 (CA)



SR58 (CA)



SR59 (CA)

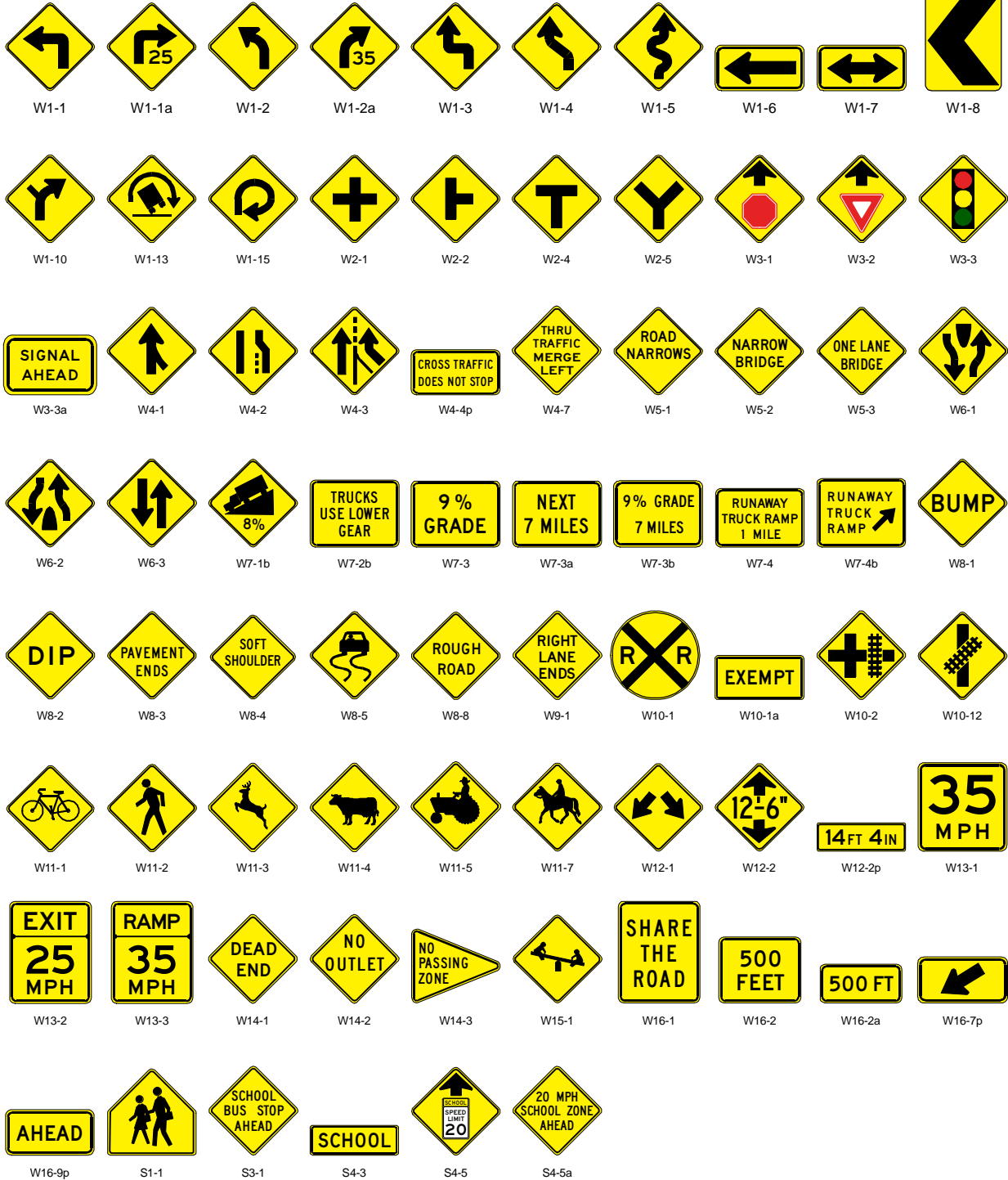
# California Sign Chart

## Sheet 4 of 10 - Federal Warning Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

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September 2006



# California Sign Chart

## Sheet 5 of 10 - California Warning Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

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Signs and Work Zones Branch  
September 2006



W4-1 (CA)



W4-10 (CA)



W4-14 (CA)



W4-18 (CA)



W4-22 (CA)



W11-1 (CA)



W20 (CA)



W20A (CA)



W30B (CA)



W30C (CA)



W31 (CA)



W31A (CA)



W34A (CA)



W34C (CA)



W38 (CA)



W43 (CA)



W44A (CA)



W46A (CA)



W48 (CA)



W49 (CA)



W50 (CA)



W50-1 (CA)



W51 (CA)



W55 (CA)



W55B (CA)



W59-1 (CA)



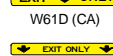
W61A (CA)



W61B (CA)



W61C (CA)



W61E (CA)



W61F (CA)



W61G (CA)



W61H (CA)



W66B (CA)



W69 (CA)



W70 (CA)



W72B (CA)



W73 (CA)



W73A (CA)



W74-1 (CA)



W75-1 (CA)



W82 (CA)



W82-1 (CA)



W83 (CA)



SW4-1 (CA)



SW17-1 (CA)



SW22-1 (CA)



SW22-1A (CA)



SW26 (CA)



SW28 (CA)



SW32 (CA)



SW35 (CA)



SW36 (CA)



SW37 (CA)



SW38 (CA)



SW41 (CA)



SW44 (CA)



SW45 (CA)



SW46 (CA)



SW47 (CA)



SW48 (CA)



SW49 (CA)



SW50 (CA)



SW52 (CA)



SW54 (CA)



SW54-1 (CA)



SW54A (CA)



SW54B (CA)



SW54C (CA)



SW58 (CA)



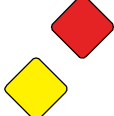
SW59 (CA)



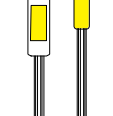
Type R (CA)



Type P (CA)



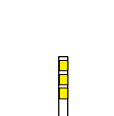
Type N (CA)



Type L (CA)



Type K (CA)



Type Q (CA)

# California Sign Chart

## Sheet 6 of 10 - Federal Guide Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

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September 2006



# California Sign Chart

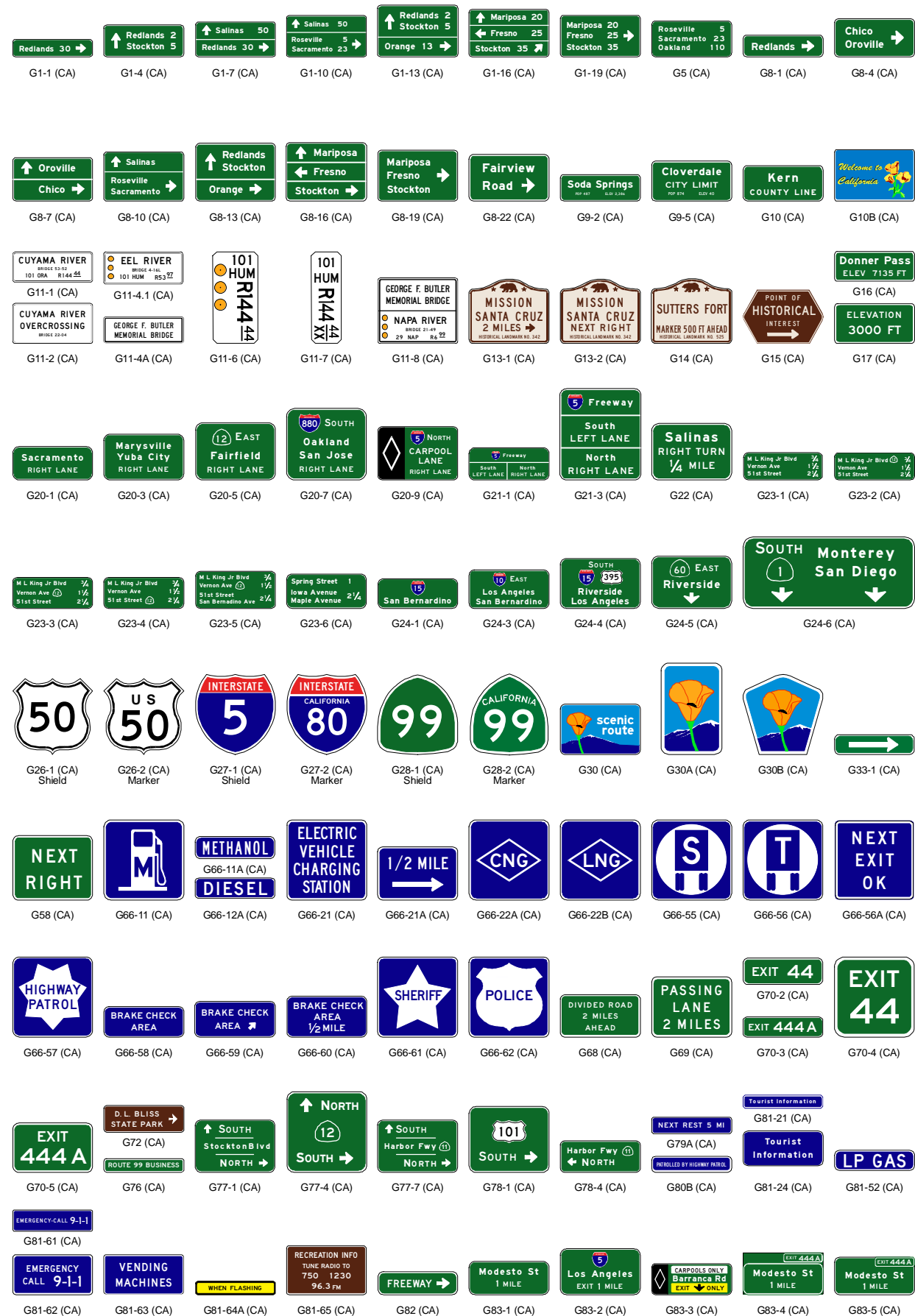
## Sheet 7 of 10 - California Guide Signs

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Signs and Work Zones Branch  
September 2006



This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).



# California Sign Chart

## Sheet 8 of 10 - California Guide Signs (Continued)

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signel/index.htm).

California Department of Transportation  
Signs and Work Zones Branch  
September 2006



G84-1 (CA)



G84-2 (CA)



G84-3 (CA)



G85-1 (CA)  
Main St



G85-3 (CA)



G85-4 (CA)



G85-5 (CA)



G85-6 (CA)



G85-7 (CA)



G85-8 (CA)



G85-9 (CA)



G85-10 (CA)



G85-11 (CA)



G86-1 (CA)



G86-3 (CA)



G86-5 (CA)



G86-7 (CA)



G86-8 (CA)



G86-9 (CA)



G86-10 (CA)



G86-11 (CA)



G86-12 (CA)



G86-13 (CA)



G87 (CA)



G92 (CA)



G92-1 (CA)



G93C (CA)



G94-1 (CA)



G95A (CA)



G95B (CA)



G95D (CA)



G95E (CA)



G95F (CA)



G96 (CA)



G97A (CA)



G200-80 (CA)



G200-81 (CA)



G200-81A (CA)



G200-82 (CA)



G200-82A (CA)



SG1 (CA)



SG2 (CA)



SG2A (CA)



SG8 (CA)



SG19 (CA)



SG20 (CA)



SG25 (CA)



SG25A (CA)



SG26 (CA)



SG28 (CA)



SG30 (CA)



SG31 (CA)



SG32 (CA)



SG34 (CA)



SG35-1 (CA)



SG38 (CA)



SG41 (CA)



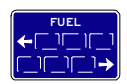
SG42-1 (CA)



SG42-2 (CA)



SG42-3 (CA)



SG42-4 (CA)



SG42-5 (CA)



SG42-6 (CA)



SG42-7 (CA)



SG42-8 (CA)



SG42-9 (CA)



SG42-10 (CA)



SG42-11 (CA)



SG42-12 (CA)



SG44-1 (CA)



SG45 (CA)



SG47A (CA)



SG47B (CA)



SG47C (CA)



SG47D (CA)



SG49A (CA)



S1-1 (CA)



S2 (CA)



S9 (CA)



S10 (CA)



S12 (CA)



S16-8 (CA)



S18 (CA)



S19 (CA)



S25 (CA)



S26 (CA)



S27 (CA)



S28 (CA)



S29 (CA)



S29-1 (CA)



S29-2 (CA)



S32 (CA)



S32A (CA)



S32-1 (CA)



S32-2 (CA)



S32-3 (CA)



S32-4 (CA)



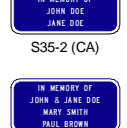
S32-5 (CA)



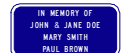
S34 (CA)



S35 (CA)



S35-2 (CA)



S35-3 (CA)



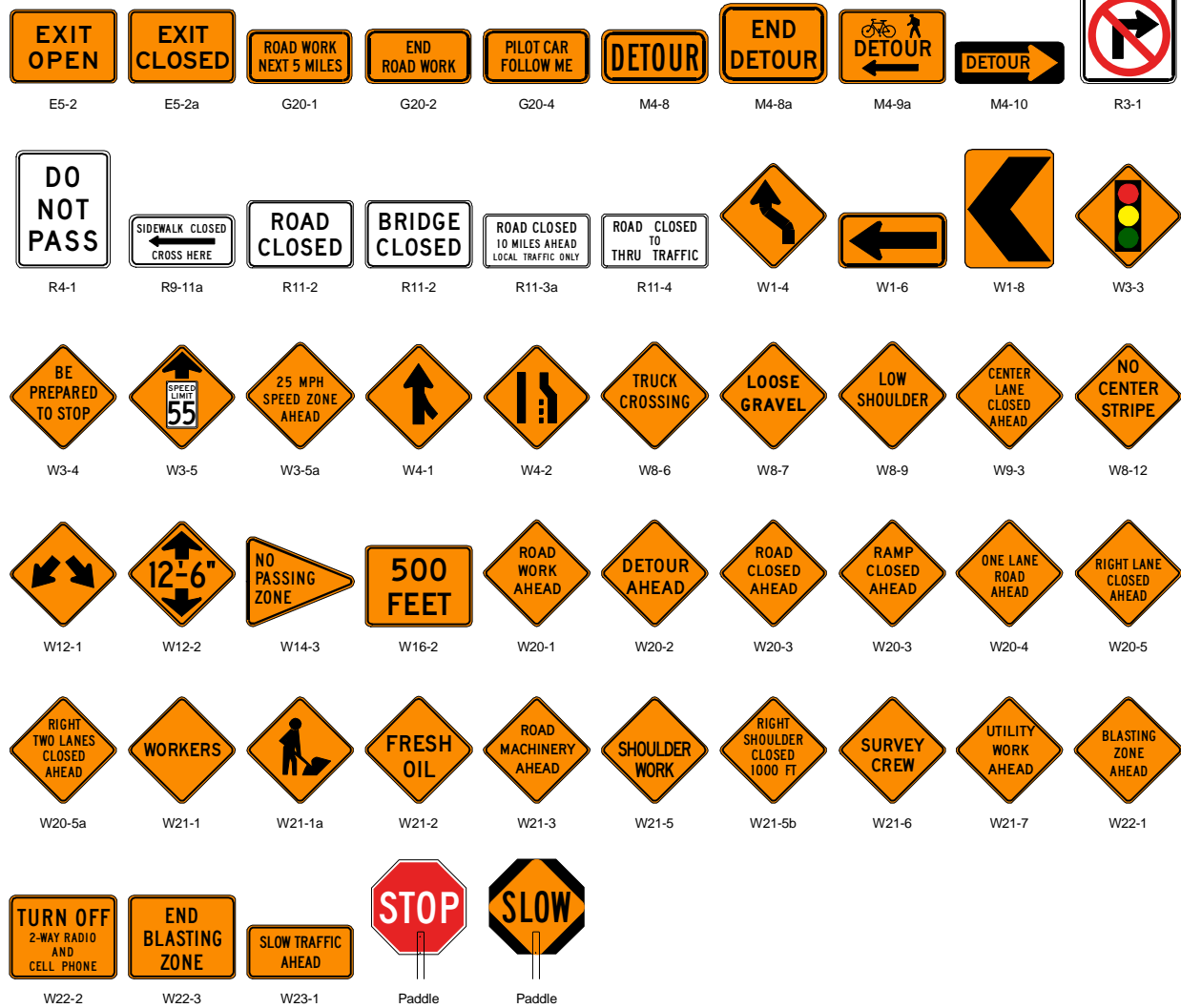
# California Sign Chart

## Sheet 9 of 10 - Federal Temporary Traffic Control Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

California Department of Transportation  
Signs and Work Zones Branch  
September 2006





# California Sign Chart

California Department of Transportation  
Signs and Work Zones Branch  
September 2006



## Sheet 10 of 10 - California Temporary Traffic Control Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).



C9A (CA)



C12 (CA)



Front  
C17 (CA)



Back  
C17 (CA)



C20 (CA)



C23B (CA)



C24 (CA)



C27 (CA)



C29 (CA)



C30 (CA)



C30A (CA)



C31A (CA)



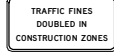
C37 (CA)



C37 (CA)



C38 (CA)



C40 (CA)



C40A (CA)



SC3 (CA)



SC5 (CA)



SC6-3 (CA)



SC6-4 (CA)



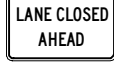
SC7 (CA)



SC8 (CA)



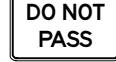
SC9 (CA)



SC10 (CA)



SC11 (CA)



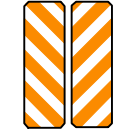
SC13 (CA)



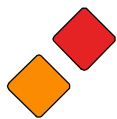
SC15 (CA)



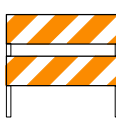
Type R (CA)



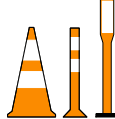
Type P (CA)



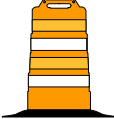
Type N (CA)



Type II  
Barricade



Cone,  
Tubular Marker,  
Channelizer



Plastic  
Drum

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## APPENDIX A102(CA). LIST OF ACRONYMS & ABBREVIATIONS

### Support:

The following list of acronyms are related to traffic control devices and provided for ease of use and as a handy reference:

<u>A</u>	
@	At
AADT	Average Annual Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
ADA	Americans with Disabilities Act
ADT	Average Daily Traffic
AHS	Automated Highway System
Alt	Alternate
AM	Time from midnight to noon
AMBER	Use of CMS signs for child abduction alert messages
AMIS	Automated Management Information System
ANSI	American National Standards Institute
Approx	Approximate
APWA	American Public Works Association
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Materials
ATIS	Advanced Traveler Information Systems
ATMS	Advanced Traffic Management System
ATSSA	American Traffic Safety Services Association
AVCS	Automated Vehicle Control System
Ave or AVE	Avenue
Avg	Average
<u>B</u>	
BART	Bay Area Rapid Transit
Bldg	Building
Blvd or BLVD	Boulevard
Br or BR	Bridge
BT&H	Business, Transportation & Housing Agency
<u>C</u>	
CA	California
CAC	California Administrative Code
Cal/OSHA	California Occupational Safety and Health Administration
CA MUTCD	California Manual on Uniform Traffic Control Devices for Streets and Highways
Caltrans	California Department of Transportation
CBD	Central Business District
CCMP	County Congestion Management Plan
CCO	Contract Change Order
CCR	California Code of Regulations
CDC	California Department of Conservation
CDF	California Department of Forestry
CDFG	California Department of Fish and Game

CEAC	County Engineers Association of California
CELSOC	Consulting Engineering and Land Surveyors of California
CFR	Code of Federal Regulations
CHIN	California Highway Information Network
CHP	California Highway Patrol
cm	Centimeter
CMA	Congestion Management Agency
CMP	Congestion Management Program
CMS	Changeable Message Sign or Congestion Management System
Co or CO	County
COB	Close of Business
COZEEP	Construction Zone Enhanced Enforcement Program
CPC	California Penal Code
CPH	California Permit Handbook
CPM	Critical Path Method
CPUC	California Public Utilities Commission
Cr or CR	Creek
CRHR	California Register of Historical Resources
CT	Caltrans or California Department of Transportation
CTA	California Trucking Association
CTC	California Transportation Commission
CTCDC	California Traffic Control Devices Committee
CTP	California Transportation Plan
CURE	Clean-up Roadside Environment
CVC	California Vehicle Code
<u>D</u>	
Deg	Degree
Del	Delineator
Det	Detour or Detail
DHV	Design Hourly Volume
DI	Delay Index, Drop Inlet or Drainage Inlet
Dia	Diameter
DIB	Design Information Bulletin
Dist	Distance or District
DMV	Department of Motor Vehicles
DOT	Department of Transportation
Dr or DR	Drive
DTO	Division of Traffic Operations
Dwy or DWY	Driveway
DYS	Double Yellow Stripe
<u>E</u>	
e.g.	"For Example"
E	East
EB	Eastbound, Environmental Branch or End of Bridge
Elev	Elevation
ENGR	Engineer or Engineering
EP	Edge of Pavement or Environmental Planning
ES	Edge of Shoulder or End Section

ESA	Environmentally Sensitive Area or Endangered Species Act
ESAL	Equivalent Single-Axle Loads
ETW	Edge of Traveled Way
Exp or EXP	Expressway
<u><b>E</b></u>	
F&E System	Freeway and Expressway System
FAI	Federal-aid Interstate
FAP	Federal-aid Primary
FCC	Federal Communication Commission
FEBT	Facing Eastbound Traffic
FHWA	Federal Highway Administration
Fig	Figure
FNBT	Facing Northbound Traffic
FR	Federal Register
Fr Rd	Frontage Road
FS	Far Side
FSBT	Facing Southbound Traffic
FSP	Freeway Service Patrol
Ft or FT	Foot or Feet
FWBT	Facing Westbound Traffic
Fwy or FWY	Freeway
<u><b>G</b></u>	
g	Acceleration due to gravity
GPS	Global Positioning System
GR	Guard Railing
<u><b>H</b></u>	
H	Height
HAR	Highway Advisory Radio
HAZMAT	Hazardous Material
HCM	Highway Capacity Manual
HDM	Highway Design Manual
HOT	High Occupancy Toll
HOV	High-Occupancy Vehicle
HOVL	High-Occupancy Vehicle Lane
HM	Hazardous Material
HQ	Caltrans Headquarters
Hr or HR	Hour
HW	Hazardous Waste
Hwy or HWY	Highway
<u><b>I</b></u>	
i.e.	"In Other Words"
IGR	Intergovernmental Review
ILEV	Inherently Low Emission Vehicle
in	Inch
Inj or INJ	Injury
IRLs	In-Roadway Lights
IRWLs	In-Roadway Warning Lights

ISO	International Standards Organization
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991 (Federal)
ITE	Institute of Transportation Engineers
ITS	Intelligent Transportation Systems or Institute of Transportation Studies
ITTE	Institute of Transportation & Traffic Engineering
IVHS	Intelligent Vehicle Highway System
<u>K</u>	
km	Kilometer
KP	Kilometer Post
<u>L</u>	
L	Length
Lat	Latitude
lb or LB	Pound
LED	Light Emitting Diode
LF	Linear Foot
Ln or LN	Lane
Loc or LOC	Location
LOS	Level of service (Traffic Congestion Measure)
LPA	Local Public Agency
LRT	Light Rail Transit
Lt or LT	Left
<u>M</u>	
m	meter
MADT	Monthly Average Daily Traffic
Maint	Maintenance
Max or MAX	Maximum
MAZEPP	Maintenance Zone Enhanced Enforcement Program
MBGR	Metal Beam Guard Rail
Med or MED	Median
MF	Mixed Flow
mi or MI	Mile or Miles
Min or MIN	Minimum
Misc or MISC	Miscellaneous
mm	Millimeter
mph or MPH	Miles per Hour
MPO	Metropolitan Planning Organization
MSL	Mean Sea Level
MT	Mass Transit
MTC	Metropolitan Transportation Commission (for the San Francisco Bay Area)
MUTCD	Manual on Uniform Traffic Control Devices
MVM	Per Million Vehicle Miles
<u>N</u>	
N	North
NB	Northbound
NCEES	National Council of Examiners for Engineering and Surveying
NCHRP	National Cooperative Highway Research Program
NCRP	National Cooperative Research Program

NCUT	National Committee on Urban Transportation
NCUTCD	National Committee on Uniform Traffic Control Devices
NCUTLO	National Committee on Uniform Traffic Laws and Ordinances
NHI	National Highway Institute
NHL	National Historic Landmark
NHS	National Highway System
NHSB	National Highway Safety Bureau
NHTSA	National Highway Traffic Safety Administration
NNIH	National Network of Interstate Highways
No.	Number (must have period)
Nos.	Numbers (must have period)
NPRM	Notice of Proposed Rule Making
NPS	National Park Service (U.S.)
NR	National Register (of Historic Places, abbreviation)
NRHP	National Register of Historic Places
NS	Near Side
NTS	National Transportation System or Not To Scale
NTSB	National Transportation Safety Board
<u><b>O</b></u>	
O & D	Origin and Destination
Oc or OC	Overcrossing
OCTA	Orange County Transportation Authority
ODA	Outdoor Advertising (Act)
OES	Office of Emergency Services
OG	Original Ground
OH	Overhead (Structure)
OHP	Office of Historic Preservation
Opp	Opposite
OSA	Office of the State Architect
OSHA	Occupational Safety and Health Administration
<u><b>P</b></u>	
P2P	Peer-to-Peer Program
P&P	Policy & Procedure
PCH	Pacific Coast Highway
PCMS	Portable Changeable Message Sign
PDO	Property Damage Only
PE	Professional Engineer or Project Engineer
Ped or PED	Pedestrian
PHF	Peak Hour Factor
PHI	Point of Historic Interest
PM	Post Mile
PMS	Pavement Management System
PMT	Passenger Miles Traveled
PS&E	Plans, Specifications, and Estimate
Pvmt or PVMT	Pavement
PUC	California Public Utilities Commission

<u>Q</u>	
Q&A	Questions and Answers
Qty	Quantity
<u>R</u>	
R&D	Research and Development
RCE	Registered Civil Engineer
Rd	Road
Rdwy	Roadway
RE	Resident Engineer or Right of Entry
ROW	Right of Way
RR	Railroad
Rt or RT	Right
Rte or RTE	Route or Registered Traffic Engineer
RV	Recreational Vehicle
R/W	Right of Way
Rwy	Railway
RXR	Railroad Crossing
<u>S</u>	
S&H Code	Streets & Highways Code
S	South
SACOG	Sacramento Area Council of Governments
SAFE	Service Authority for Freeways & Expressways
SB	Southbound or Senate Bill
SCAG	Southern California Association of Governments
SCRRA	Southern California Regional Rail Authority
SCRTD	Southern California Rapid Transit District
Sec	Second or Section
SHELL	State Highway Extra Legal Loads
SHL	State Historical Landmark
SHOPP	State Highway Operation and Protection Program
SHS	Standard Highway Signs Book (FHWA)
SI	Safety Index or International System of Units (Metric)
SR	State Route or Senate Resolution
SRRA	Safety Roadside Rest Area
SSD	Stopping Sight Distance
SSP's	Standard Special Provisions
St or ST	Street
STA	State Transit Assistance
STIP	State Transportation Improvement Program
Str or STR	Structure
SW	Sidewalk or Soundwall
SWITRS	Statewide Integrated Traffic Records Systems
<u>I</u>	
TASAS	Traffic Accident Surveillance and Analysis System
TC	Traffic Control
TCM	Transportation Control Measure
TCP	Traffic/Transportation Control Plan



TEA21	Transportation Efficiency Act for the 21st Century
Temp or TEMP	Temporary
TI	Traffic Index
TM	Caltrans Traffic Manual
TMC	Traffic Management Center
TMP	Transportation Management Plan
TMT	Traffic Management Team
TODS	Tourist-Oriented Directional Signs
TOPD	Traffic Operations Policy Directives
TOS	Traffic Operations System
TRB	Transportation Research Board
TS	Traffic Signal
TSS	Caltrans Traffic Sign Specifications
TTC	Temporary Traffic Control
<u>U</u>	
UC	Under Crossing
UP	Underpass
UPRR	Union Pacific Railroad
URR	Urban Rail Transit Program (State)
USA	Underground Service Alert
USC	United States Code (Federal)
USCE	United States (Army) Corps of Engineers (Federal)
USDOT	United States Department of Transportation
<u>V</u>	
VMS	Variable Message Sign
VMT	Vehicle Miles Traveled
vph or VPH	Vehicles Per Hour
vphpl or VPHPL	Vehicles Per Hour Per Lane
<u>W</u>	
W	West or Width
WATCH	Work Area Traffic Control Handbook
WB	Westbound
WIM	Weigh-in Motion
WS	White Stripe
Wt	Weight
<u>X</u>	
Xing or XING	Crossing
<u>X</u>	
Yr	Year
YS	Yellow Stripe

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## APPENDIX A103(CA). LIST OF USEFUL TCD RELATED WEB SITES

### Support:

The following list of web sites are related to traffic control devices and provided for ease of use and as a handy reference:

Description	Internet Web Site Address
American Association of State Highway and Transportation Officials (AASHTO)	<a href="http://www.transportation.org/">http://www.transportation.org/</a>
American Railway Engineering and Maintenance-of-Way Association (AREMA)	<a href="http://www.arena.org/">http://www.arena.org/</a>
American Traffic Safety Services Association (ATSSA)	<a href="http://www.atssa.com">http://www.atssa.com</a>
California Building Standards Code	<a href="http://www.iccsafe.org/">http://www.iccsafe.org/</a>
California Code of Regulations (CCR)	<a href="http://ccr.oal.ca.gov/">http://ccr.oal.ca.gov/</a>
California Department of Motor Vehicles (DMV)	<a href="http://www.dmv.ca.gov/dmv.htm">http://www.dmv.ca.gov/dmv.htm</a>
California Highway Patrol	<a href="http://www.chp.ca.gov/">http://www.chp.ca.gov/</a>
California Law	<a href="http://www.leginfo.ca.gov/calaw.html">http://www.leginfo.ca.gov/calaw.html</a>
California MUTCD	<a href="http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/">http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/</a>
California Public Utilities Commission (CPUC)	<a href="http://www.cpuc.ca.gov/">http://www.cpuc.ca.gov/</a>
California Sign Chart	<a href="http://www.dot.ca.gov/hq/traffops/signtech/signdel/signchart.html">http://www.dot.ca.gov/hq/traffops/signtech/signdel/signchart.html</a>
California Traffic Control Devices Committee (CTCDC)	<a href="http://www.dot.ca.gov/hq/traffops/signtech/newtech/">http://www.dot.ca.gov/hq/traffops/signtech/newtech/</a>
California Vehicle Code	<a href="http://www.dmv.ca.gov/pubs/vctop/vcpdftoc.htm">http://www.dmv.ca.gov/pubs/vctop/vcpdftoc.htm</a>
Caltrans Approved Safety Devices List	<a href="http://www.dot.ca.gov/hq/esc/approved_products_list/HighwaySafe.htm">http://www.dot.ca.gov/hq/esc/approved_products_list/HighwaySafe.htm</a>
Caltrans Interchange Exit Numbering	<a href="http://www.dot.ca.gov/hq/traffops/signtech/calnexus/index.htm">http://www.dot.ca.gov/hq/traffops/signtech/calnexus/index.htm</a>
Caltrans Manuals	<a href="http://www.dot.ca.gov/manuals.htm">http://www.dot.ca.gov/manuals.htm</a>
Caltrans Office of Truck Services (STAA Truck Routes)	<a href="http://www.dot.ca.gov/hq/traffops/trucks/">http://www.dot.ca.gov/hq/traffops/trucks/</a>
Caltrans Publications	<a href="http://caltrans-opac.ca.gov/publicat.htm">http://caltrans-opac.ca.gov/publicat.htm</a>
Caltrans Rural/Urban Roadway Classification	<a href="http://www.dot.ca.gov/hq/tsip/hpms/Page1.php">http://www.dot.ca.gov/hq/tsip/hpms/Page1.php</a>
Caltrans Sign Specifications	<a href="http://www.dot.ca.gov/hq/traffops/signtech/signdel/specs.htm">http://www.dot.ca.gov/hq/traffops/signtech/signdel/specs.htm</a>
Caltrans Traffic Manual	<a href="http://www.dot.ca.gov/hq/traffops/signtech/signdel/trafficmanual.htm">http://www.dot.ca.gov/hq/traffops/signtech/signdel/trafficmanual.htm</a>

Description	Internet Web Site Address
Federal-Aid Highway Program Guidance on High Occupancy Vehicle (HOV) Lanes	<a href="http://www.fhwa.dot.gov/operations/hovguide01.htm">http://www.fhwa.dot.gov/operations/hovguide01.htm</a>
Federal Highway Administration	<a href="http://www.fhwa.dot.gov/">http://www.fhwa.dot.gov/</a>
Federal Railroad Administration	<a href="http://www.fra.dot.gov/">http://www.fra.dot.gov/</a>
FHWA's Experimentation/Interpretation Letters	<a href="http://www.atssa.com/page.wv?section=Resources&amp;name=Interpretation+Letters">http://www.atssa.com/page.wv?section=Resources&amp;name=Interpretation+Letters</a>
FHWA's MUTCD	<a href="http://mutcd.fhwa.dot.gov/">http://mutcd.fhwa.dot.gov/</a>
FHWA's Office of Safety	<a href="http://safety.fhwa.dot.gov/index.htm">http://safety.fhwa.dot.gov/index.htm</a>
FHWA's Standard Highway Signs Book	<a href="http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm">http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm</a>
Going Going Gone (Free Surplus Transportation Literature from UC Berkeley's ITS Tech Transfer)	<a href="http://www.techtransfer.berkeley.edu/freestuff/">http://www.techtransfer.berkeley.edu/freestuff/</a>
Illuminating Engineering Society (IES)	<a href="http://www.iesna.org/">http://www.iesna.org/</a>
Institute of Makers of Explosives	<a href="http://www.ime.org/">http://www.ime.org/</a>
Institute of Transportation Engineers (ITE)	<a href="http://www.ite.org">http://www.ite.org</a>
International Organization for Standards (ISO)	<a href="http://www.iso.org/">http://www.iso.org/</a>
International Safety Equipment Association (ISEA)	<a href="http://www.safetysafetyequipment.org/">http://www.safetysafetyequipment.org/</a>
National Committee on Uniform Traffic Control Devices (NCUTCD)	<a href="http://www.ncutcd.org">http://www.ncutcd.org</a>
National Committee on Uniform Traffic Laws and Ordinances (NCUTLO)	<a href="http://www.ncutlo.org">http://www.ncutlo.org</a>
Occupational Safety and Health Administration (OSHA)	<a href="http://www.osha.gov/">http://www.osha.gov/</a>
Tech Transfer Training: UC Berkeley Institute of Transportation Studies	<a href="http://www.techtransfer.berkeley.edu/training/index.php">http://www.techtransfer.berkeley.edu/training/index.php</a>
Transportation Research Board (TRB)	<a href="http://www.trb.org/">http://www.trb.org/</a>
U.S. Architectural and Transportation Barriers Compliance Board (The U.S. Access Board)	<a href="http://www.access-board.gov/">http://www.access-board.gov/</a>